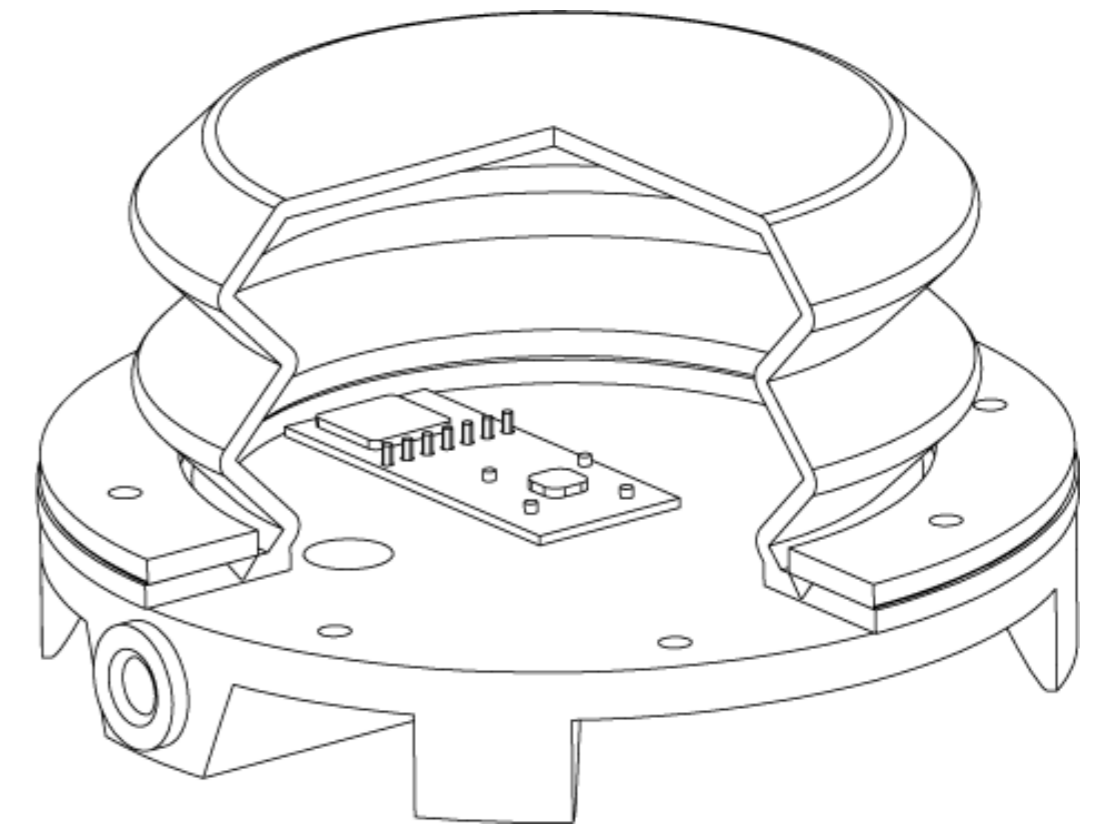


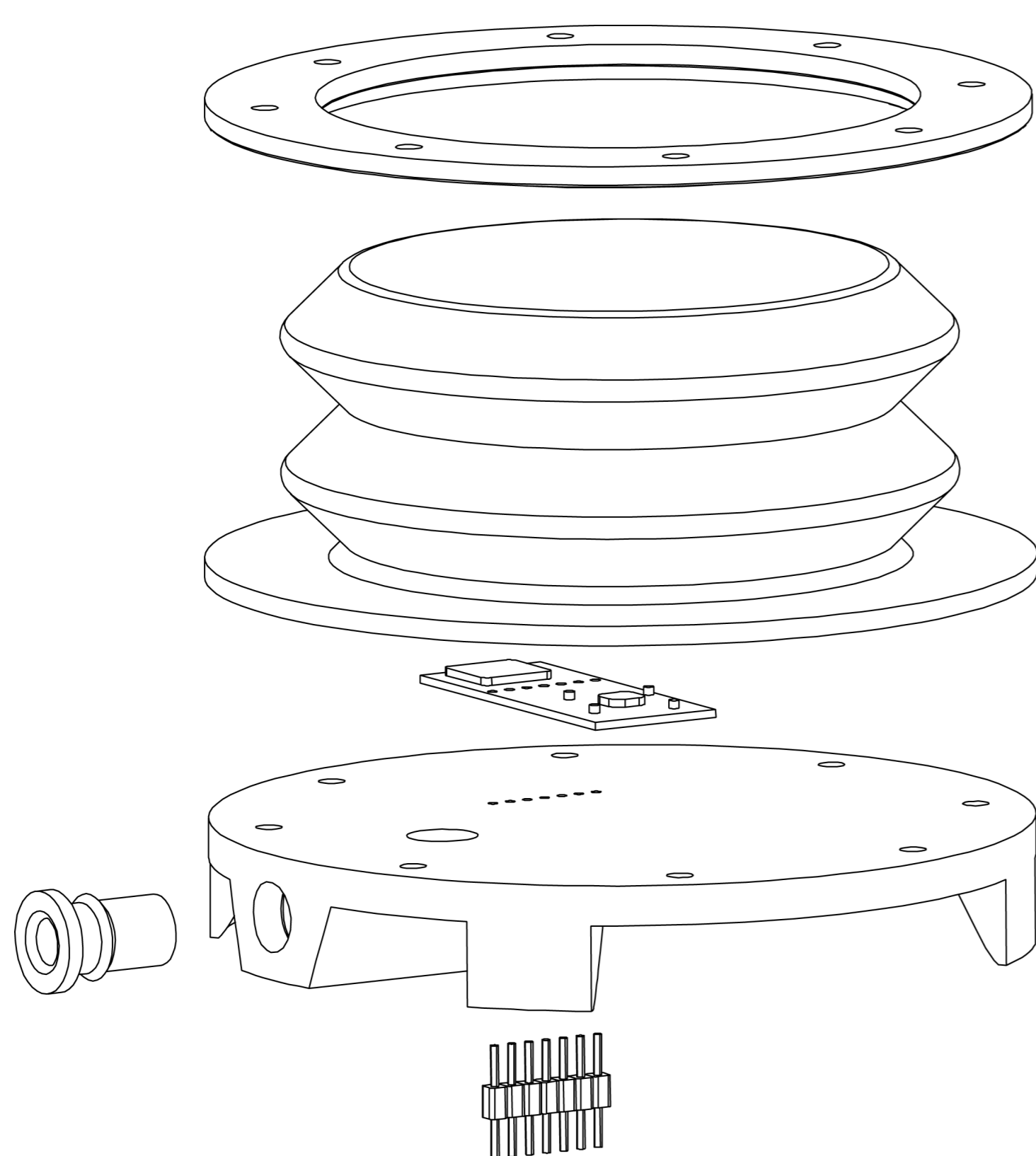
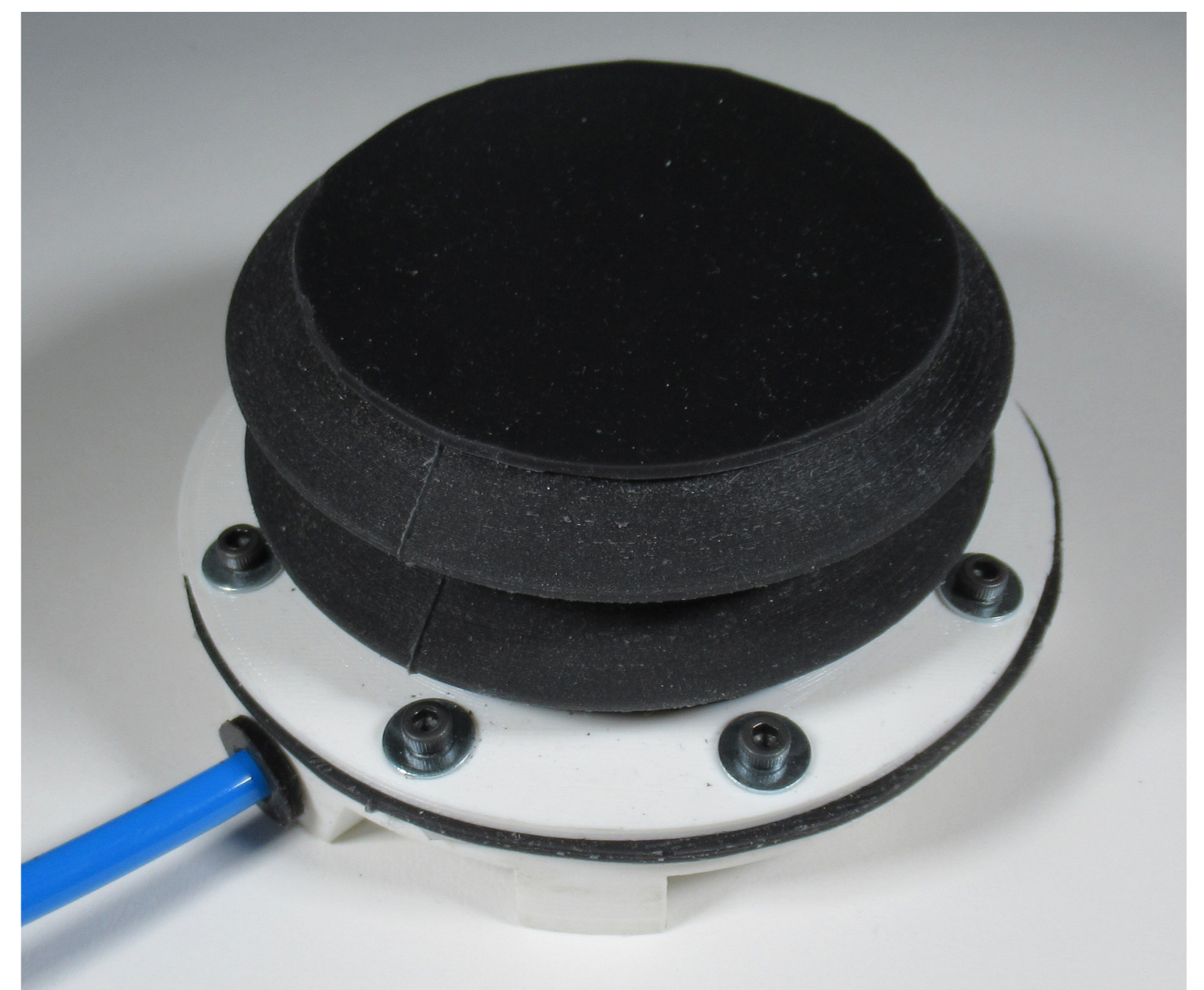
Prototyping a Variable-stiffness soft robotic module for integration into a car seat



This project focused on the development and optimization of a Soft robotic sensor to both monitor the surface of a car seat. The module was trained using neural networks and the calibration of this process was optimized. It was found that the comfort experienced in the car seat can be influenced by the modules, and that the overall thoughts about the actuation are positive.

In future projects, the capabilities of neural networks can be explored: how do we create the most comfortable seat existing?

How can we anticipate on what the user wants before the user knows (s)he wants it?



Tjark Roozendaal
Prototyping a chair with variable-stiffness soft robotic modules
12/5/2021
IPD

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